

TECHNICAL BULLETIN

MAY 1976

GYPSUM ROCK FOR PORTLAND CEMENT PLANTS

Kaiser Gypsum Rock is produced from selected open-face gypsum quarries, and crushed to proper specifications at our plants at Long Beach, Antioch, and Seattle. Gypsum rock is used to control setting time of Portland Cement. The SO₃ value of the gypsum is the critical factor in the set control mechanism.

Product description and typical average properties are as follows:

Common Name Chemical Name Chemical Formula Molecular Weight	Gypsum Calcium Sulfate, Dihydrate CaSO ₄ .2H ₂ O 172.18	
Gypsum Purity	95%	
Sulfur Trioxide (SO ₃)	44.2%	
Decomposition Temperature	262°F (128°C) loses 1-1/2 H ₂ O 325°F (163°C) loses 2 H ₂ O	
Specific Gravity Mohs Hardness Color pH (saturated solution)	2.25 2.0 White to light gray 7.1	
Solubility (grams per 100 ml. water)	At 68° F (20° C) At 212°F (100° C)	0.20 0.16

Fineness	Crusher Run Gypsum Rock	Screened Gypsum Rock
Plus 1 inch	0 - 2%	0 - 2%
Minus 1 inch Plus 1/4 inch Minus 1/4 inch	(98% - 100%	95% - 100% 0 - 3%

Kaiser Gypsum Rock conforms to the Standard Specification for Gypsum, ASTM Designation C 22. The chemical analysis of the gypsum shall be determined by Standards Methods for Chemical Analysis of Gypsum and Gypsum Products, ASTM Designation C 471.